

10670586

## Refine Search

### Search Results -

Terms	Documents
L77 and "liner"	59

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L78

Refine Search

Recall Text

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### Search History

DATE: Thursday, September 09, 2004   [Printable Copy](#)   [Create Case](#)

#### Set Name Query

side by side

#### Hit Count Set Name

result set

DB=PGPB,USPT,USOC,EPAB,JPAB; PLUR=YES; OP=ADJ

L78   L77 and "liner"   59   L78

L77   (374/4,5,6,7,29,45,57,102,208,147,142,148)! [CCLS]   4425   L77

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L76   liner deterioration   17   L76

L75   pipeline deterioration detection   0   L75

L74   pipeline corrosion detection   2   L74

L73   liner corrosion detection   0   L73

L72   (fluid tank) and (corrosion) and (leak) and (resistor)   33   L72

L71   L68 and "resistor"   2   L71

L70   L68 and "resistance"   2   L70

L69   L68 and "temperature"   5   L69

L68   L62 and "corrosion"   10   L68

L67   L66 and "corrosion"   1   L67

L66   (pipeline leak) and (temperature sensor)   39   L66

<u>L65</u>	L62 and "temperature sensor"	24	<u>L65</u>
<u>L64</u>	L62 and "liner"	3	<u>L64</u>
<u>L63</u>	L62 and "lining"	1	<u>L63</u>
<u>L62</u>	pipeline leak detection	111	<u>L62</u>
<u>L61</u>	L60 and "temperature"	50	<u>L61</u>
<u>L60</u>	pipeline liner	110	<u>L60</u>
<u>L59</u>	container insulation temperature	0	<u>L59</u>
<u>L58</u>	container insulation defect	0	<u>L58</u>
<u>L57</u>	container insulation failure	0	<u>L57</u>
<u>L56</u>	(fluid container) and (lining failure)	0	<u>L56</u>
<u>L55</u>	(fluid container) and (lining wear)	4	<u>L55</u>
<u>L54</u>	L53 and "temperature sensor"	55	<u>L54</u>
<u>L53</u>	lining wear	3111	<u>L53</u>
<u>L52</u>	L50 and "sensor"	7	<u>L52</u>
<u>L51</u>	L50 and "temperature sensor"	1	<u>L51</u>
<u>L50</u>	lining failure	72	<u>L50</u>
<u>L49</u>	pipe liner defect	0	<u>L49</u>
<u>L48</u>	pipe liner failure	0	<u>L48</u>
<u>L47</u>	pipe liner wear	1	<u>L47</u>
<u>L46</u>	pipe insulation defect	0	<u>L46</u>
<u>L45</u>	pipe insulation failure	0	<u>L45</u>
<u>L44</u>	L39 and "insulation failure"	27	<u>L44</u>
<u>L43</u>	L39 and "insulation lining"	4	<u>L43</u>
<u>L42</u>	L39 and "insulation pipe"	8	<u>L42</u>
<u>L41</u>	L39 and "insulation temperature"	49	<u>L41</u>
<u>L40</u>	L39 and "insulation wear"	0	<u>L40</u>
<u>L39</u>	374/\$	33142	<u>L39</u>
<u>L38</u>	L37 and "liner"	10	<u>L38</u>
<u>L37</u>	374/148	494	<u>L37</u>
<u>L36</u>	L34 and "lining"	5	<u>L36</u>
<u>L35</u>	L34 and "liner"	2	<u>L35</u>
<u>L34</u>	L33 and "sensor"	195	<u>L34</u>
<u>L33</u>	L31 and "temperature"	356	<u>L33</u>
<u>L32</u>	L31 and "liner temperature"	0	<u>L32</u>
<u>L31</u>	374/147	422	<u>L31</u>
<u>L30</u>	conduit liner temperature	0	<u>L30</u>
<u>L29</u>	pipe liner temperature	2	<u>L29</u>
<u>L28</u>	L24 and "liner temperature"	0	<u>L28</u>
<u>L27</u>	L24 and "lining temperature"	0	<u>L27</u>
<u>L26</u>	L25 and "temperature sensor"	2	<u>L26</u>
<u>L25</u>	L24 and "liner"	14	<u>L25</u>

<u>L24</u>	particle pipe	489	<u>L24</u>
<u>L23</u>	L21 and "liner"	0	<u>L23</u>
<u>L22</u>	L21 and "lining"	0	<u>L22</u>
<u>L21</u>	particle fluid pipe	4	<u>L21</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L20</u>	2207473	14	<u>L20</u>
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<u>L19</u>	6467812.pn.	1	<u>L19</u>
<u>L18</u>	6422608.pn.	1	<u>L18</u>
<u>L17</u>	5573282.pn.	1	<u>L17</u>
<u>L16</u>	5373282.pn.	1	<u>L16</u>
<u>L15</u>	5301984.pn.	1	<u>L15</u>
<u>L14</u>	4900345.pn.	1	<u>L14</u>
<u>L13</u>	4684155.pn.	1	<u>L13</u>
<u>L12</u>	3255427.pn.	1	<u>L12</u>
<u>L11</u>	4684155.pn.	1	<u>L11</u>
<u>L10</u>	4554721.pn.	1	<u>L10</u>
<u>L9</u>	4536105.pn.	1	<u>L9</u>
<u>L8</u>	4301651.pn.	1	<u>L8</u>
<u>L7</u>	4234274.pn.	1	<u>L7</u>
<u>L6</u>	1992960.pn.	1	<u>L6</u>
<u>L5</u>	1208049.pn.	1	<u>L5</u>
<u>L4</u>	1140720.pn.	1	<u>L4</u>
<u>L3</u>	(6686752.pn.) and (11208049.pn.)	0	<u>L3</u>
<u>L2</u>	6686752.pn.	1	<u>L2</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L1</u>	temperature abrasive fluid	17	<u>L1</u>

END OF SEARCH HISTORY

## Refine Search

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result set

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<u>L78</u>	L77 and "liner"	59	<u>L78</u>
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<u>L77</u>	(374/4,5,6,7,29,45,57,102,208,147,142,148)![CCLS]	4425	<u>L77</u>
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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L76</u>	liner deterioration	17	<u>L76</u>
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<u>L75</u>	pipeline deterioration detection	0	<u>L75</u>
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<u>L74</u>	pipeline corrosion detection	2	<u>L74</u>
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<u>L73</u>	liner corrosion detection	0	<u>L73</u>
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<u>L72</u>	(fluid tank) and (corrosion) and (leak) and (resistor)	33	<u>L72</u>
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<u>L71</u>	L68 and "resistor"	2	<u>L71</u>
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<u>L70</u>	L68 and "resistance"	2	<u>L70</u>
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<u>L69</u>	L68 and "temperature"	5	<u>L69</u>
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<u>L68</u>	L62 and "corrosion"	10	<u>L68</u>
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<u>L67</u>	L66 and "corrosion"	1	<u>L67</u>
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<u>L66</u>	(pipeline leak) and (temperature sensor)	39	<u>L66</u>
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<u>L65</u>	L62 and "temperature sensor"	24	<u>L65</u>
<u>L64</u>	L62 and "liner"	3	<u>L64</u>
<u>L63</u>	L62 and "lining"	1	<u>L63</u>
<u>L62</u>	pipeline leak detection	111	<u>L62</u>
<u>L61</u>	L60 and "temperature"	50	<u>L61</u>
<u>L60</u>	pipeline liner	110	<u>L60</u>
<u>L59</u>	container insulation temperature	0	<u>L59</u>
<u>L58</u>	container insulation defect	0	<u>L58</u>
<u>L57</u>	container insulation failure	0	<u>L57</u>
<u>L56</u>	(fluid container) and (lining failure)	0	<u>L56</u>
<u>L55</u>	(fluid container) and (lining wear)	4	<u>L55</u>
<u>L54</u>	L53 and "temperature sensor"	55	<u>L54</u>
<u>L53</u>	lining wear	3111	<u>L53</u>
<u>L52</u>	L50 and "sensor"	7	<u>L52</u>
<u>L51</u>	L50 and "temperature sensor"	1	<u>L51</u>
<u>L50</u>	lining failure	72	<u>L50</u>
<u>L49</u>	pipe liner defect	0	<u>L49</u>
<u>L48</u>	pipe liner failure	0	<u>L48</u>
<u>L47</u>	pipe liner wear	1	<u>L47</u>
<u>L46</u>	pipe insulation defect	0	<u>L46</u>
<u>L45</u>	pipe insulation failure	0	<u>L45</u>
<u>L44</u>	L39 and "insulation failure"	27	<u>L44</u>
<u>L43</u>	L39 and "insulation lining"	4	<u>L43</u>
<u>L42</u>	L39 and "insulation pipe"	8	<u>L42</u>
<u>L41</u>	L39 and "insulation temperature"	49	<u>L41</u>
<u>L40</u>	L39 and "insulation wear"	0	<u>L40</u>
<u>L39</u>	374/\$	33142	<u>L39</u>
<u>L38</u>	L37 and "liner"	10	<u>L38</u>
<u>L37</u>	374/148	494	<u>L37</u>
<u>L36</u>	L34 and "lining"	5	<u>L36</u>
<u>L35</u>	L34 and "liner"	2	<u>L35</u>
<u>L34</u>	L33 and "sensor"	195	<u>L34</u>
<u>L33</u>	L31 and "temperature"	356	<u>L33</u>
<u>L32</u>	L31 and "liner temperature"	0	<u>L32</u>
<u>L31</u>	374/147	422	<u>L31</u>
<u>L30</u>	conduit liner temperature	0	<u>L30</u>
<u>L29</u>	pipe liner temperature	2	<u>L29</u>
<u>L28</u>	L24 and "liner temperature"	0	<u>L28</u>
<u>L27</u>	L24 and "lining temperature"	0	<u>L27</u>
<u>L26</u>	L25 and "temperature sensor"	2	<u>L26</u>
<u>L25</u>	L24 and "liner"	14	<u>L25</u>

<u>L24</u>	particle pipe	489	<u>L24</u>
<u>L23</u>	L21 and "liner"	0	<u>L23</u>
<u>L22</u>	L21 and "lining"	0	<u>L22</u>
<u>L21</u>	particle fluid pipe	4	<u>L21</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L20</u>	2207473	14	<u>L20</u>
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<u>L19</u>	6467812.pn.	1	<u>L19</u>
<u>L18</u>	6422608.pn.	1	<u>L18</u>
<u>L17</u>	5573282.pn.	1	<u>L17</u>
<u>L16</u>	5373282.pn.	1	<u>L16</u>
<u>L15</u>	5301984.pn.	1	<u>L15</u>
<u>L14</u>	4900345.pn.	1	<u>L14</u>
<u>L13</u>	4684155.pn.	1	<u>L13</u>
<u>L12</u>	3255427.pn.	1	<u>L12</u>
<u>L11</u>	4684155.pn.	1	<u>L11</u>
<u>L10</u>	4554721.pn.	1	<u>L10</u>
<u>L9</u>	4536105.pn.	1	<u>L9</u>
<u>L8</u>	4301651.pn.	1	<u>L8</u>
<u>L7</u>	4234274.pn.	1	<u>L7</u>
<u>L6</u>	1992960.pn.	1	<u>L6</u>
<u>L5</u>	1208049.pn.	1	<u>L5</u>
<u>L4</u>	1140720.pn.	1	<u>L4</u>
<u>L3</u>	(6686752.pn.) and (11208049.pn.)	0	<u>L3</u>
<u>L2</u>	6686752.pn.	1	<u>L2</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L1</u>	temperature abrasive fluid	17	<u>L1</u>

END OF SEARCH HISTORY

## Freeform Search

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<b>Database:</b>	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins
<b>Term:</b>	liner deterioration <div style="float: right; text-align: right;">     </div>
<b>Display:</b>	<input type="text" value="10"/> Documents in <u>Display Format:</u> <input type="text" value="-"/> Starting with Number <input type="text" value="1"/>
<b>Generate:</b> <input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image	

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Search

Clear

Interrupt

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### Search History

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DATE: Thursday, September 09, 2004    [Printable Copy](#)    [Create Case](#)

**Set Name   Query**  
side by side

**Hit Count   Set Name**  
result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L76</u>	liner deterioration	17	<u>L76</u>
<u>L75</u>	pipeline deterioration detection	0	<u>L75</u>
<u>L74</u>	pipeline corrosion detection	2	<u>L74</u>
<u>L73</u>	liner corrosion detection	0	<u>L73</u>
<u>L72</u>	(fluid tank) and (corrosion) and (leak) and (resistor)	33	<u>L72</u>
<u>L71</u>	L68 and "resistor"	2	<u>L71</u>
<u>L70</u>	L68 and "resistance"	2	<u>L70</u>
<u>L69</u>	L68 and "temperature"	5	<u>L69</u>
<u>L68</u>	L62 and "corrosion"	10	<u>L68</u>
<u>L67</u>	L66 and "corrosion"	1	<u>L67</u>
<u>L66</u>	(pipeline leak) and (temperature sensor)	39	<u>L66</u>
<u>L65</u>	L62 and "temperature sensor"	24	<u>L65</u>
<u>L64</u>	L62 and "liner"	3	<u>L64</u>
<u>L63</u>	L62 and "lining"	1	<u>L63</u>
<u>L62</u>	pipeline leak detection	111	<u>L62</u>
<u>L61</u>	L60 and "temperature"	50	<u>L61</u>

<u>L60</u>	pipeline liner	110	<u>L60</u>
<u>L59</u>	container insulation temperature	0	<u>L59</u>
<u>L58</u>	container insulation defect	0	<u>L58</u>
<u>L57</u>	container insulation failure	0	<u>L57</u>
<u>L56</u>	(fluid container) and (lining failure)	0	<u>L56</u>
<u>L55</u>	(fluid container) and (lining wear)	4	<u>L55</u>
<u>L54</u>	L53 and "temperature sensor"	55	<u>L54</u>
<u>L53</u>	lining wear	3111	<u>L53</u>
<u>L52</u>	L50 and "sensor"	7	<u>L52</u>
<u>L51</u>	L50 and "temperature sensor"	1	<u>L51</u>
<u>L50</u>	lining failure	72	<u>L50</u>
<u>L49</u>	pipe liner defect	0	<u>L49</u>
<u>L48</u>	pipe liner failure	0	<u>L48</u>
<u>L47</u>	pipe liner wear	1	<u>L47</u>
<u>L46</u>	pipe insulation defect	0	<u>L46</u>
<u>L45</u>	pipe insulation failure	0	<u>L45</u>
<u>L44</u>	L39 and "insulation failure"	27	<u>L44</u>
<u>L43</u>	L39 and "insulation lining"	4	<u>L43</u>
<u>L42</u>	L39 and "insulation pipe"	8	<u>L42</u>
<u>L41</u>	L39 and "insulation temperature"	49	<u>L41</u>
<u>L40</u>	L39 and "insulation wear"	0	<u>L40</u>
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<u>L28</u>	L24 and "liner temperature"	0	<u>L28</u>
<u>L27</u>	L24 and "lining temperature"	0	<u>L27</u>
<u>L26</u>	L25 and "temperature sensor"	2	<u>L26</u>
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<u>L22</u>	L21 and "lining"	0	<u>L22</u>
<u>L21</u>	particle fluid pipe	4	<u>L21</u>

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<u>L6</u>	1992960.pn.	1	<u>L6</u>
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